## AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings of claims in the application:

## LISTING OF CLAIMS:

## 1-32. (cancelled)

- 33. (new) An isolated protein that comprises or is constituted by the amino acid sequence of SEQ ID NO: 1.
- **34. (new)** The isolated protein of claim 33, wherein said protein comprises or is constituted by the amino acid sequence of SEQ ID NO: 2 or SEQ ID NO: 3.
- 35. (new) An isolated nucleotide sequence encoding the protein that comprises or is constituted by the amino acid sequence of SEQ ID NO: 1.
- 36. (new) A recombinant vector comprising a nucleotide sequence encoding the isolated protein as defined in claim 33.
- 37. (new) The recombinant vector according to claim 36, wherein said recombinant vector is a plasmid, a cosmid, a phage, or a virus DNA.

- 38. (new) The recombinant vector according to claim 36, comprising operable elements for expression in a host cell of the isolated protein encoded by the nucleotide sequence, inserted into a vector.
- **39. (new)** A host cell transformed with a recombinant vector containing a nucleotide sequence encoding the isolated protein as defined in claim 33.
- **40.** (new) The host cell according to claim 39, said host cell being chosen from bacteria, yeast, fungi, plant cells, or mammalian cells.
- 41. (new) A pharmaceutical composition comprising, as active ingredient, the isolated protein according to claim 33, in combination with a pharmaceutically acceptable vehicle.
- **42. (new)** A pharmaceutical composition, comprising as active ingredient, a protein represented by the amino acid sequence of SEQ ID NO: 2 or SEQ ID NO: 3, in combination with a pharmaceutically acceptable vehicle.
- 43. (new) The pharmaceutical composition according to claim 41, in which the isolated protein, is in combination

with a variant of the paraoxonase protein comprising the amino acid sequence selected from the group consisting of: SEQ ID NO: 4, SEQ ID NO: 5, and SEQ ID NO: 6.

- 44. (new) The pharmaceutical composition according to claim 43, wherein the isolated protein is the isolated protein of SEQ ID NO 2 or SEQ ID NO 3.
  - 45. (new) A combination product comprising:

at least the isolated protein according to claim 33, and

at least one variant of the paraoxonase protein consisting of the amino acid sequence selected from the group consisting of: SEQ ID NO: 4of SEQ ID NO: 5, and SEQ ID NO: 6,

for simultaneous or separate use, or use spread over time, intended for the prophylaxis or treatment of intoxications caused by insecticides or nerve agents.

- 46. (new) The combination product according to claim 45, wherein said isolated protein is the isolated protein of SEQ ID NO 2 or SEQ ID NO 3.
- 47. (new) The combination product according to claim 45, wherein said nerve agents are soman, VX, sarin, or tabun.

- 48. (new) A method for determining in human plasma the concentration of the isolated protein according to claim 33, said method comprises the following stages:
- fixing rabbit monoclonal antibodies directed against different epitopes of the isolated protein according to claim 33, to a plate, and applying human serum to be analyzed containing said protein to the plate,
  - rinsing and washing the plate,
- applying antibodies directed against rabbit antibodies (anti-IGrabbit-per) marked with peroxidase to the plate for over 30 minutes, in order to form a ternary complex between a rabbit monoclonal antibody, the isolated protein and said antibody directed against a rabbit antibody (anti-HPB HPB anti-IGrabbit-per),
  - rinsing and washing the plate,
- reacting the peroxidase with a substrate and then stopping the reaction at the end of 30 minutes with 3,3',5,5'-tetramethylbenzidine,
- measuring the optical density of the product formed in the preceding stage at 450 nm using a spectrophotometer, and comparing with a standard curve,
- determining the concentration of the isolated protein according to claim 33 from the preceding stage.

- ${\bf 49.}$  (new) The method according to claim 48, wherein said isolated protein is the isolated protein of SEQ ID NO 2 or SEQ ID NO 3.
- 50. (new) The method according to claim 48, which is useful for *in vitro* diagnosis of a disease linked to hyperphosphataemia, wherein when the concentration of the isolated protein of SEQ ID NO: 2 or SEQ ID NO: 3 as assayed is less than the quantity of the protein normally present in the blood of a healthy individual, it correlates to an *in vitro* diagnosis of a disease linked to hyperphosphataemia.
- 51. (new) The method according to claim 48, which is useful for *in vitro* diagnosis of a disease linked to hypophosphataemia, wherein when the concentration of the protein of SEQ ID NO: 2 or SEQ ID NO: 3 as assayed is greater than the quantity of the protein normally present in the blood of a healthy individual, it correlates to an *in vitro* diagnosis of a disease linked to hypophosphataemia.
- **52. (new)** The method according to claim 48, which is useful for *in vitro* diagnosis of an individual's predisposition to a disease linked to hyperphosphataemia or to hypophosphataemia.

- 53. (new) The method of claim 52, wherein the disease linked to hyperphosphataemia is cardiovascular disease.
- **54. (new)** The method according to claim 53, wherein said cardiovascular disease is linked to the formation of atheroma plaque.